EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	0	451/6.clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 11:10
S4	737	451/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 16:40
S5	166	S4 and image	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 11:11
S6	0	S4 and ("photo image sensor")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 11:11
S7	14	S4 and ("image sensor")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 11:11
S8	16	S4 and (slurry adj dispens$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 11:22
S9	0	(slurry adj dispens$4) and (image adj sensor)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 11:22
S10	315	"451".clas. and (slurry adj3 (control or monitor or nozzle or by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 15:17
S12	0	("6814835").URPN.	USPAT	OR	OFF	2004/11/09 14:08
S15	0	("6802762").URPN.	USPAT	OR	OFF	2004/11/09 14:13
S16	6	("20020045412" | "20020173232" | "5799643" | "6161533" | "6406364" | "6475070").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/09 16:55
S17	9	("4042444" | "4805348" | "5099614" | "5329732" | "5498196" | "5498199" | "5674410" | "6001215" | "6319099").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/09 16:54
S18	129	"438".clas. and (slurry adj3 (control or monitor or nozzle or by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 17:20

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S19	315	"451".clas. and (slurry adj3 (control or monitor or nozzle or by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 17:20
S20	111	S18 not S19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 08:52
S21	119	(slurry adj3 supply) and (size$ near3 (partical or particles)) and density	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 09:02
S22	129	"438".clas. and (slurry adj3 (control or monitor or nozzle or by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 09:03
S23	315	"451".clas. and (slurry adj3 (control or monitor or nozzle or by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 11:01
S24	111	S22 not S23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 09:03
S25	105	S21 not (S24 or S23)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 09:07
S26	7	(slurry adj (supply or dispens$4 or provide$ or distribute or deliver$)) same (sense or sensor$) same (density or (size near (particle$ or partical)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 09:11
S27	0	("2004/0127143").URPN.	USPAT	OR	OFF	2004/11/10 09:12
S28	9	("4042444" | "4805348" | "5099614" | "5329732" | "5498196" | "5498199" | "5674410" | "6001215" | "6319099").PN. OR ("6814835").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/10 11:13
S29	737	451/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/09 12:48
S30	166	S29 and image	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 12:47

EAST Search History

Ref#	Hits	Search Query	Databases	Default Operator	Plurals	Time Stamp
S31	57277	"356".clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/10 12:48
S32	518	356/335.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 13:12
S33	112	S32 and density	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 12:53
S35	0	S32 and "photo image sensor"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 12:54
S42	0	S32 and (photo adj image)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 12:56
S43	135	S32 and fluid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 13:07
S52	13	(356/335.ccls.) and slurry	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 13:47
S54	20	photo image sensor	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2004/11/10 13:53
S55	101	"451".clas. and (nozzle and (bypass or by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 15:20
S59	129	"438".clas. and (slurry adj3 (control or monitor or nozzle or by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 17:21
S60	272	"438".clas. and (slurry and (control and monitor andr nozzle and by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 17:22
S61	0	"438".clas. and (slurry and (control and monitor and nozzle and by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 17:22

EAST Search History

Ref#	Hits	Search Query	Databases	Default Operator	Plurals	Time Stamp
S62	0	"438".clas. and (slurry and (control and nozzle and by-pass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 17:23
S63	203	"438".clas. and (slurry and (control and nozzle))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 17:23
S64	35	"438".clas. and (slurry same (control and nozzle))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 09:37
S65	4	"438".clas. and (slurry and (control and nozzle and bypass))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/10 17:23
S66	0	"438".clas. and (slurry same ((bypass or by-pass) and nozzle))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 09:37
S67	29	("3187627" | "3225193" | "3819278" | "3867033" | "3975084" | "4385830" | "4432642" | "4529306" | "4555179" | "4613210" | "4635111" | "4661845" | "4664513" | "467243" | "4768879" | "4802761" | "4804268" | "4973561").PN. OR ("5191388").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/11/12 11:01
S68	107	"451".clas. and (flow with control) same (density or size)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 11:02
S69	21	"451".clas. and (flow with control) same density	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 15:39
S70	605	"451".clas. and (flow with control) and nozzle	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 14:08
S71	738	451/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 11:41
S72	166	S71 and (density or ((particle or particals) adj3 size))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 11:45

EAST Search History

Ref	Hits	Search Query	Databases	Default Operator	Plurals	Time Stamp
S73	2	S72 and (bypass or by-pass)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 11:42
S74	132	S72 and slurry	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 12:06
S75	131	(flow adj control) same ((particle adj size$) and (density or composition))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 12:07
S76	23	S75 and slurry	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 12:07
S77	605	"451".clas. and (flow with control) and nozzle	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 14:09
S78	255	S77 and (sensor or detector or monitor)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 14:16
S79	27	CMP and ((flow adj3 control) same (sensor or detector or monitor) and nozzle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 14:19
S81	28	(451/6.ccls.) and ((particl$ or particle$) adj size)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 15:12
S84	6	(451/6.ccls.) and ((flow with control) same nozzle)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/12 15:41
S85	2	"5710069".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/15 13:49
S86	2	"6347976".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/15 14:49
S87	0	KR200205438A.app.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/15 14:49

EAST Search History

Ref	Hits	Search Query	Databases	Default Operator	Plurals	Time Stamp
S88	0	KR200205438A	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/15 14:50
S89	0	KR200205438	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/15 14:50
S90	1508100	KR "200205438"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/15 14:50
S91	4	"200205438"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/11/15 14:51
S92	1	2003-036970	DERWENT	OR	OFF	2004/11/15 14:51
S93	2	"5710069".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/01 15:43
S94	29	(US-20020045412-$ or US-20020052175-$ or US-20020197871-$).did. or (US-4669230-$ or US-4784295-$ or US-5191388-$ or US-5561520-$ or US-5674410-$ or US-5791970-$ or US-5799643-$ or US-5846398-$ or US-5993647-$ or US-6048256-$ or US-6161533-$ or US-6275290-$ or US-6287171-$ or US-6319099-$ or US-6336850-$ or US-6406364-$ or US-6464562-$ or US-6544109-$ or US-6586193-$ or US-6595829-$ or US-6790127-$ or US-6802762-$ or US-6814835-$).did. or (US-6048256-$ or KR-2002054538-$ or US-5710069-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/11/01 16:32
S95	3	S94 and (diluent dilute dilutant dilutent mitigate (thin adj out) (water adj down))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/01 16:40
S96	825	451/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 16:40

Ref	Hits	Search Query	Databases	Default Operator	Plurals	Time Stamp
S97	17	S96 and (diluent dilute dilutant dilutent mitigate (thin adj out) (water adj down))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/01 16:53
S98	0	("2004/0014396").URPN.	USPAT	OR	OFF	2005/11/01 16:44
S99	25	S96 and (diluent diluted dilutant dilutent mitigate (thin adj out) (water adj down))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 09:17
S100	9	S99 not S97	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/01 16:59
S101	2	09/986988.app.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/01 16:59
S102	1	10/676643.app.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/01 18:06
S103	876	451/6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 09:17
S104	3	S103 and (dilu$6 with (particle particles partical))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 09:18
S105	280	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 with (particle particles partical))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 12:14
S106	192	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 near8 (particle particles partical))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 09:19
S107	162	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 near6 (particle particles partical))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 09:19

Ref	Hits	Search Query	Databases	Default Operator	Plurals	Time Stamp
S108	116	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 near4 (particle particles partical))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 09:18
S109	1	10/676643.app.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 11:30
S110	66	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 with (abrasive near2 (particle particles partical)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/23 12:15
S111	116	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 near4 (particle particles partical))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 09:21
S112	48	S111 and solvent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 09:18
S113	6	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and ((dilu$6 near4 (particle particles partical)) with solvent$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 09:24
S114	165	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 near4 solvent$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 13:32
S115	26	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 near4 solvent$2) and (sensor sensors)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 09:27
S116	279	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and (dilu$6 near solution)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 13:33
S117	116	(slurry and (CMP "Chemical mechanical polishing" "chemical mechanical planarizing")) and ((dilu$6 near solution) with water)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/24 13:33

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S118	2	10/322238.app.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/01 15:37
S119	0	S118 and (return with dilu$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/01 15:37
S120	0	S118 and (return same dilu$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/01 15:37
S121	0	S118 and (drain same dilu$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/01 15:37
S122	375	(slurry and flow and ((sensor sensors detector detectors) with (light and image)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:36
S123	2	10/322238.app.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:32
S124	4	("4794806" "5835211").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:32
S125	138	slurry and flow and ((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) and ((sensor sensors detector detectors) with (photo image))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:38
S126	106	semiconductor and slurry and flow and ((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) and ((sensor sensors detector detectors) with (photo image))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:50

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S127	1446	"photo-multiplier tube"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:42
S128	642	("photo-multiplier tube") and image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:42
S129	97	("photo-multiplier tube") with image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:42
S130	998	(particle particles density size) and flow and (((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo image)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:51
S131	652	(liquid fluid slurry) and (particle particles density size) and flow and (((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo image)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:52
S132	240	(liquid fluid slurry) and (particle particles density size) and flow and (((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo image))) and ((cross adj section) "cross-section")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:52
S133	144	(semiconductor CMP) and (liquid fluid slurry) and (particle particles density size) and flow and (((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo image))) and ((cross adj section) "cross-section")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:57
S134	0	("451".clas.) and (((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo image))) and ((cross adj section) "cross-section")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:57

EAST Search History

Ref #	Hits	Search Query	DB	Default Operator	Plurals	Time Stamp
S13 5	4	("451".clas.) and (((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo image)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:58
S13 6	0	("451".clas.) and (((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo adj image)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 09:59
S13 7	2	(((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same ((sensor sensors detector detectors) with (photo adj image)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 10:07
S13 8	2	((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) and (((cross adj section$4) "cross-section" or "cross-sectional") with (photo adj image))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 10:09
S13 9	340	((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) and (((cross adj section$4) "cross-section" or "cross-sectional") with (photo image))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 10:09
S14 0	36	((sensor sensors detector detectors) with (light near3 (scater$4 scatter$4 extinction))) same (((cross adj section$4) "cross-section" or "cross-sectional") with (photo image))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 10:15
S14 1	4	("photo image sensor").ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/04/18 10:15
S14 2	1	10/676643.app.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/10/17 08:54

EAST Search History

Ref #	Hits	Search Query	DB	Default Operator	Plurals	Time Stamp
S14 3	39	(US-20020045412-$ or US-20020052175-$ or US-20050248765-$ or US-20020197871-$ or US-20020061722-$ or US-20030174306-$ or US-20010029161-$ or US-20070024998-$).did. or (US-6336850-$ or US-6586193-$ or US-5791970-$ or US-5710069-$ or US-6464562-$ or US-4435247-$ or US-5846398-$ or US-6048256-$ or US-5191388-$ or US-5993647-$ or US-6319099-$ or US-6790127-$ or US-4784295-$ or US-6814835-$ or US-6275290-$ or US-6161533-$ or US-6595829-$ or US-5561520-$ or US-6544109-$ or US-6287171-$ or US-6802762-$ or US-5674410-$ or US-6406364-$ or US-5799643-$ or US-4669230-$ or US-4152745-$). did. or (US-4015592-$).did. or (JP-2001343321-$).did. or (US-6048256-$ or US-5710069-$ or KR-2002054538-$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/10/17 09:14
S14 4	6	S143 and display	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/10/17 09:14